

# THE TECH

VOL. XXVII. No. 52

BOSTON, MASS., MONDAY, MARCH 2, 1908

PRICE THREE CENTS

## TOWN MEETING CONVENES FRIDAY.

### PROF. BATES TO OPEN PROCEEDINGS.

Debates on Abstruse Problems  
To Be Feature.

A genuine old town meeting with all its accompaniments of knocks and laughs will be held at the Union, Friday at 7.30, by the Civic Club.

Prof. Arlo Bates, who has not forgotten his active work in a New England township, will start the meeting with an outline of the mode of procedure, giving special attention to the humorous side. A moderator, selectmen and other officers will then be appointed.

Reports from the treasurer and committees will be duly brought up and discussed. Then finally will come the debating of various abstruse problems connected with the hypothetical town.

Truth being no object, wit and humor will be plentiful. It is hoped that all who come will join in the discussion as is the case in the real town meeting. The following formal declaration explains itself:

The Commonbankruptcy of Technology:

In the year of our Lord one thousand nine hundred and eight and the forty-seventh of the Independence of Technology. In the third month of the same and the sixth day thereof will be held in the Tech Union at seven thirty in the evening a meeting of the town of Technology. All those unqualified to vote in the affairs of Technology are hereby duly notified and warned to be present thereat to take action on the following: (1) advisability of the appropriation for the unemployed, (2) the granting of the prayer of the Copley Society for the use of the district school, (3) a resolution and appropriation to compel removal of billboards, (4) appropriation for school bell, (5) discussion of ways and means to prevent auto speeding, (6) removal of Cemetery, (7) license or no license, (8) Spagetto Stinkato to be required to remove his skunk farm beyond the limits of the town.

By order of the Selectmen of the town of Technology.

W. E. R. Sille, Town Clerk.

### TECH DAY TICKETS SENT OUT.

Each Student Will Receive Ten  
Tickets Today.

Fifteen thousand tickets for Tech Day at the Hippodrome were sent out Saturday. Every student at the Institute will receive in this morning's mail 10 tickets enclosed with a circular describing this entire enterprise with directions for securing reserved seats.

In regard to the tickets, attention is called to the following excerpt from the letter sent out with the tickets:

"One thing we want to especially call your attention to is that we have only until MARCH 22ND to dispose of these tickets, and unless we sell them by that time we will have no further interest in them.

"At a circus, more than at a theatre, it is most important to get your seats early because many of the seats are better than others. To be fair to every one we are mailing all of these tickets on the same day; so take our 'tip' and go down and get your tickets exchanged right away, and send the money for the same into our Treasurer for we have to account for the tickets as they are exchanged.

"We can get the UNION if we can raise the money, and we can raise the money IF YOU WILL DO YOUR PART.

"The Tech will greatly appreciate any suggestion which will assist in the disposal of these tickets and thus increase our fund."

### NOTICE.

A very important mass meeting will be held in Huntington Hall Tuesday at 1.00 P. M. All students should make an effort to attend. Called by the Institute Committee.

## COURSE II ALSO UNDERGOES CHANGES.

### LANGUAGE REQUIREMENTS ARE DECREASED.

Prof. Lanza Voices Need of Loco  
Testing Plant.

Notwithstanding the changes that have been made from time to time in the course in mechanical engineering at the Institute and the constant improvements and developments continuously affected in each of the professional subjects taught in the endeavor to meet the needs of the modern developments in engineering practise, it has been found necessary by the department to gain more time for a number of subjects, reports Prof. Lanza, head of the department.

Accordingly, one year of study of modern languages has been dropped, and the time thus gained has enabled the authorities in the course to increase the number of hours devoted to literary subjects, applied mechanics, steam engineering, power plant design, and electrical subjects.



PROF. GAETANO LANZA.

These changes in the course take effect for the second-year class of the present year, and constitute a very considerable improvement in the course of study. Added to this improvement has been a physical one in the way of numerous additions to the equipment.

The superheater, for which appropriation was made last year, has been installed, and a steam turbine has been ordered and is on the way.

This turbine is of five-hundred kilowatt capacity, and is fitted with a hydraulic brake instead of a generator, though it is so arranged that a generator can be added. The turbine is being manufactured and furnished by the Westinghouse Machine Company, who made the Institute a very liberal donation while the difference has been kindly contributed by certain members of the visiting committee of the department.

Besides the superheater and steam turbine the following smaller apparatus has been added: a thirty-six-inch hydro-extractor, for the purpose of studying experimentally the laws of running balance of machinery having a high rotational speed; a Starret mine pump, presented to the department by the makers; a compressor, owned by the mining department, and loaned to the mechanical engineering department; an additional cement testing machine; and a Thomas calorimeter.

Professor Lanza is now attempting to secure a surface condenser of a capacity of eleven thousand five hundred pounds per hour; a refrigerating plant; and an impact testing machine. He is also very anxious to secure a stationary plant for testing locomotives, as this is especially in his line of work.

(Continued on page 8)

## TECH WINS FROM MAINE.

### BASKET BALL TEAM VICTORIOUS BY 22-15 SCORE.

Game Hard-Fought and Fast.

Technology defeated the University of Maine 22 to 15 at the Gym Saturday night. The game was fast and furious, with the first half ending 12 to 11 in favor of Tech. M. I. T. played a strong, defensive game in the second half, and no baskets from the floor were scored against them; quick work by Parker and Hargraves added ten points to the score. J. Seales' nine goals from fouls was the best work done for Maine.

M. I. T. MAINE.  
Hargraves, (Parker) rf. . . . . lb. Morton Cahill f. . . . . rb. Marshall Parker (Pierce) c. . . . . c. J. Seales Nichols, rb. . . . . lf. Wadsworth (N. Seale) Wentworth lb. . . . . rf. Black (Capt.)  
Score, M. I. T. 22, Maine 15. Goals from floor, Wentworth, Hargraves 4, Parker 4, Cahill, Wadsworth, J. Seales 2, Marshall. Goals from fouls, J. Seales 9, Wentworth 2. Referee, Velte. Scorer, N. Seales. Timer, Emery. Time, 20m. halves.

### WINDY CITY LADS DINE TOGETHER.

Twenty-two members of the Chicago Club gathered at the Marlboro Hotel last Friday evening. A meeting after the dinner resulted in the election of H. Lockett, president; R. C. Walter, vice-president; S. A. Guthrie, secretary; M. W. Tilden, treasurer; and J. Mills, recording secretary.

F. Lovewell, J. Mills, A. Morris, W. Hildebrand and W. West were the new members elected.

### MORE SNAP IN CONCERT.

Musical Clubs Make Hit in Newton.

West Newton was the scene of the concert of the Musical Clubs Friday evening held in the vestry of the Unitarian Church there. The program was run off with more snap than on any occasion since the winter concert, and was enthusiastically received by the audience. The concert was followed by a dance.

### TO VISIT HERALD BUILDING.

Mechanical Engineers Will Also  
Meet at Union.

The Mechanical Engineering Society has arranged to visit the Herald Building. It has been found necessary, owing to the great number of men who desire to go, to make two parties. Options 1, 2, and 4 will go Tuesday, March 3, and option 3 on Thursday, March 5.

It is desired that all other members of the Society group themselves as far as possible to keep the sections nearly equal in number. The party will meet in 24 Eng. B at 1.45 P. M.

The next meeting of the Society will be held at the Union, Tuesday, March 3, at eight o'clock. Three members of 1908 will speak on topics of general interest to the society.

### COLD AND WINDY RUN.

Cross-Country Men Cover Four Miles.

Coach Kanaly was unable to run with the cross-country squad on Saturday afternoon. The course was laid over Harvard Bridge up the Charlesbank and back via Cottage Farm, a run of about four miles. The squad, twelve in number, including six new men, was as follows:—D. C. McMurtrie 1910, W. C. West 1911, H. G. Jenks 1911, J. D. McKenzie 1911, H. I. Pearl 1910, L. O. Mills 1910, L. A. Loomis 1908, R. Ellis 1909, W. W. Warner 1911, A. R. Knipp 1909, W. S. Davis 1910, E. S. Hanna 1909.

## TECH SHOW PETITIONS FOR WEEK'S HOLIDAY.

### ONLY ONE BOSTON PERFORMANCE POSSIBLE AT PRESENT.

Show Can Not Pay Expenses Under  
Such Conditions.

Tech Show has sent the following petition to the Faculty, requesting a vacation of one week during the spring: To the Faculty of the Massachusetts Institute of Technology, Gentlemen:—

The TECH SHOW, finding that this year it will be impossible to give more than one of its customary matinees at a theatre during the allowed intermission, and noting that during seven of the following nine years the same conditions will exist if the Faculty pursues its policy of setting aside three days, one of them being "Patriots' Day" for an intermission, hereby respectfully petitions the Faculty to put aside the week in which the April 19th holiday falls, for the students to foster the social side of their life, and extend the second term the three days necessary to make up for the time lost.

If it be impossible to grant this, it is requested that the Faculty sanction a performance on Thursday afternoon, April 23, 1908, and consider the advisability of a recess of a week for the coming years.

The TECH SHOW in making this request desires to review the following facts:—

(1) As Monday afternoon is used by professional companies for dress rehearsals, and scenery work with shows opening for the week, and Wednesday is a regular matinee date, during the April intermission projected for this year, only one matinee date, Tuesday, can be obtained at any reputable Boston theatre.

(2) One performance at a theatre will not be sufficient to pay the large expenses of the show, and unless more can be given it will be necessary to leave the theatres for some hall, such as Jordan Hall, which at best is deemed but a makeshift.

(3) The "Show" has since its inception always given its performances at a reputable Boston theatre, and to depart from this custom will detract seriously from its position with both the student body and the alumni. Furthermore the "Show" will rapidly deteriorate to the position of a society production which depends upon a coterie rather than the whole college for success.

(4) The management, the cast, and the authors, have, in view of past custom, gone into the show this year with every idea that two productions at least would be at one of the best Boston theatres, and if it now be found that this is not to be the case, will certainly feel they were interested in the work through false pretenses. Talks with those engaged in work in connection with the "Tech Show" have revealed a unanimous opinion to the effect that no great interest would be felt in the "Show" were it not to be given in an adequately equipped theatre.

(5) The expenses of a hall of comparatively limited seating capacity, compared to the receipts, are proportionately much larger than in the case of a theatre; and to clear expenses, and make even possible a surplus, will require a larger number of performances. Also the difficulties of the management will be materially increased; as it will be necessary to employ and rehearse a pick-up orchestra; to furnish stage hands; electricians; ticket sellers, and

(Continued from page 2.)

### COMMENDS WORK AT TECH.

Rev. H. A. McNulty, secretary of the Church Students' Missionary Society, gave a short talk to fourteen Tech Episcopalians Friday in the Technology Club. The work being done here at Tech was commended and especially the organization of bible classes.

## THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

All communications regarding advertisements should be addressed to the Business Manager. Regarding subscriptions address the Circulation Manager.

Subscription - \$1.50 per year in advance  
Single Copies 3 Cents

Subscriptions within the Boston Postal District and outside of United States must be accompanied by postage.

Printed by Old Colony Press, Boston.

Monday, March 2, 1908.

### THE NEED FOR SPACE.

Institute men in general realize after they have been at Tech for a few days that there is need of more room. As time goes on students get more and more into the spirit of things, but although they feel the good work that the Institute is doing, they cannot help seeing that a great many developments must be limited by lack of space.

The heads of the various departments perhaps realize the present condition of the Institute better than any student. The reports of the departments in the resident's report just out, in nearly every case ask for room, additional space, larger lecture or recitation rooms.

Prof. Swain says, "The department is crowded for space—a fact to which I have referred in previous reports. We now have as many students as we can handle to advantage in the rooms which are at our disposal. The library, moreover, is very crowded, with scarcely any room for tables."

This year Prof. Lanza points out that more room is also needed, for new apparatus, to relieve present crowding to furnish room for students to carry on thesis work on apparatus brought in from outside, to provide storage room. Last year he brought this matter to the attention of the Corporation in exactly the same terms.

Anyone who has ever visited the basement of Rogers will realize the peculiar conditions of the mining laboratory. Professor Richards puts it mildly when he says, "There is to be mentioned the old problem of lack of space. The ore-treatment, which is much developed at the Institute is cramped for room."

"The department is again confronted with a serious problem in connection with the available laboratory space," and "in order to make provisions for instruction of a still larger number next year it seems inevitable that overcrowding of another branch of the department must result" are the comments made on the condition of the chemical department by Prof. Talbot.

Prof. Jackson says, "The standardizing laboratory is in very cramped quarters, and it seems to me that it could profitably occupy as much as twice its present allotment of space." And, "It is also to be earnestly hoped that the department may soon be put in quarters where professors can have more commodious and well-ventilated offices." Prof. Clifford last year said, "The lack of proper recitation rooms still continues."

Prof. Sedgwick asks for a whole new building for his department with the sewage station in the same quarters with the various research laboratories. He says, "The time has now come when a separate building ought to be provided for the various branches of our work."

Of the physics lecture-rooms, Prof. Cross says, "A larger lecture-room and more recitation-rooms are sorely needed. Serious difficulty has been felt both last year and this from the fact that our largest physical lecture-room has not sufficient seating capacity for the class attending the lectures in heat given in the third year."

Last year Prof. Jaggard pointed out that the rooms of the geological department "are now crowded to the limit of their capacity," and "The most pressing need is for space wherein the teachers of the department may carry on research."

Dr. Bigelow, the librarian, last year said, "The great need of the library is space," and "if the student body should increase very much in size, a large reading-room would be required."

The librarian has been given temporary relief in the way of office-room by cutting off some space from the English department, but the problem of more stack-room still remains. In the

geological department there has been an attempt at relief, while more room is in sight for the mechanical laboratories if the Tech lunch is turned out of Pierce. These changes are but temporary, with no plans for future expansion.

That the Corporation has done everything possible to bring about a change is apparent. Undoubtedly there would be some change this year if it had not been for the financial depression. Everyone realizes what is needed, not a further expansion on the present site, but a new site and a well-developed plan for coming years and generations.

### TECH SHOW PETITIONS.

(Continued from page 1.)

ushers: all of which are contracted for as a part of the regular theatre force. Furthermore no scenery can be rented which is sufficiently small for use in halls, and it will be necessary to design and buy scenery which it is not now contemplated doing, scenery being part of the regular theatre equipment.

(6) The "Show" is the principal social activity at the Institute; a much larger number of students being engaged in and concerned with it than in any other Institute activity of a social nature. Nearly a hundred men are directly connected with it, and annually a thousand have seen the performances: it will undoubtedly be a loss to the Institute if anything should cause this interest to wane.

(7) The "Advisory Committee of the Tech Show" established this year guarantees the conduct of affairs, but neither it nor any one else connected with the "Show" could be held responsible for a falling off in student interest through an unavoidable non-maintenance of the present high standard of productions.

(8) The Dean has been consulted before any new men have been allowed to enter the work, and it is believed that none are now connected with the Show in any active capacity on whose names he has not satisfactorily passed. From the start this year it has been the rule that students whose Institute work is not in a satisfactory condition have not been allowed to participate.

(9) The athletic association which must, it seems, depend upon the Show for funds is at present \$1,000 in debt, an amount which the treasurer states will be increased by April, to \$1,500. The loyal alumni have complained emphatically of the practice of begging once carried on by the Athletic Association; a system which will have to be re-established if, due to loss of prestige, the income of the "Tech Show" which without any disagreeable commercial features, has now reached a substantial figure, be jeopardized.

MAKER TO WEARER  
THE  
**SPHINX**  
\$200 HAT  
412 WASHINGTON ST. BOSTON  
FALL STYLES

### FOWNES GLOVES

Hands off cheap gloves  
if you want well-gloved  
hands. Hand out

"THE GIRLS ARE FOND OF THESE"



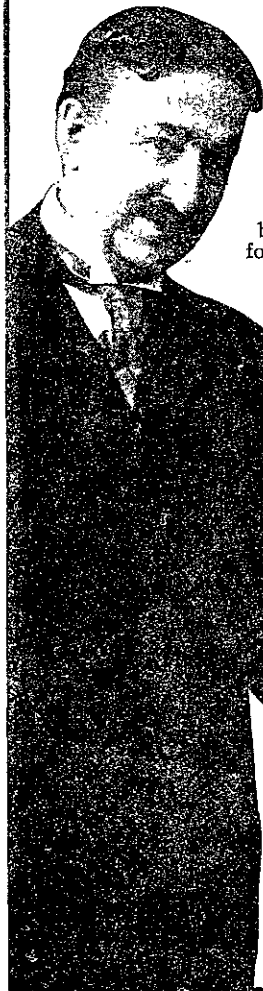
Tech Emblems

Greatest Variety  
Lowest Prices

BENT & BUSH

15 SCHOOL ST. BOSTON, MASS.

## "Shave Yourself"



I have already convinced over a million men that a daily home shave with my razor is a habit that every self-respecting man should acquire. I have taught them that the "Gillette" way is the only way to save time and money,—to maintain an unruffled disposition and to be sure of perfect hygienic shaving conditions.

My razor is increasing in popularity every day, because it is absolutely dependable—it is always ready for use—no stopping—no honing—and it gives as light or as close a shave as you may wish, without danger of cutting or scratching.

I am proving more conclusively every day, that while there may be room for argument as to what shaving accessories one should use, there is no doubt about the Razor. There is but one perfect razor—for all men—to be used under all conditions—and that is my razor—the "Gillette."

When you buy a safety razor get the best—the "Gillette." It will last you for the rest of your life—it is not a toy—it will always give you complete satisfaction.

The double-edged, flexible blades are so inexpensive that when they become dull you throw them away as you would an old pen.

*King Gillette*

The Gillette Safety Razor Set consists of a triple silver plated holder, 12 double-edged blades—24 keen edges, packed in a velvet lined leather case and the price is \$5.00 at all the leading Jewelry, Drug, Cutlery, Hardware and Sporting Goods dealers.

Combination Sets from \$6.50 to \$50.00

Ask your dealer for the "GILLETTE" today. If substitutes are offered, refuse them and write us at once for our booklet and free trial offer.

GILLETTE SALES COMPANY

282 Times Building

NEW YORK

**Gillette Safety**  
NO STOPPING NO HONING **Razor**



## McMORROW

### College Shoes for College Men

238 Washington Street, Boston, Mass.

OPPOSITE YOUNG'S HOTEL

## G. A. PATTEN & CO.

Merchant Tailors

No. 43 TREMONT ST., Carney Bldg., BOSTON

The new shades for Spring are now in stock.

Now is the best time for an early selection.

Some nobby styles in fancy blue serges.

## STONE & WEBSTER

147 MILK STREET, BOSTON

General Managers of

The Lowell Electric Light Corporation. The Seattle Electric Company. Puget Sound Electric Railway. Columbia Electric Company. Cape Breton Electric Company, Ltd. El Paso Electric Company. Jacksonville Electric Company. Ponce Electric Company. Indian Traction and Light Company. Pensacola Electric Company. The Minneapolis General Electric Company. Edison Electric Illuminating Co. of Brockton. Houghton County Electric Light Company. Brockton and Plymouth Street Railway Company. The Houghton County Street Railway Company. Whatcom County Railway and Light Company. Savannah Electric Company. Dallas Electric Corporation. Northern Texas Electric Company. The Blue Hill Street Railway Company. Fort Hill Chemical Company. Tampa Electric Company. General Electro-Chemical Company. Houston Electric Company. Fall River Gas Works Company. Galveston Electric Company. The Key West Electric Company. Baton Rouge Electric Company. Puget Sound International Railway & Power Company.

## COES & STODDER

FOR FOURTEEN YEARS

The Leading College Shoe House

14 SCHOOL STREET

## AMUSEMENTS

¶ Tickets for Boston theatres advertised below, may be had on application to Business Manager, The Tech, 30 Rogers. . . . .

THE SHOW OF THE CENTURY

# BOSTON AUTOMOBILE SHOW

MECHANICS BUILDING

March 7 to 14 inclusive

Opens Saturday March 7, 8:00 P.M.  
Open other days from 10 A.M. to 10:30 P.M.

Admission \$5.50 Wednesdays, \$1.00



**TECH DAY, APRIL 10**  
Secure your Tickets before March 22

## ORPHEUM

WEEK OF MARCH 2

**ROBERT HILLIARD & CO.**  
In "As a Man Sows."

**GUYER and CRISPI**  
Comedians and Eccentric Dancers.

**SMITH and CAMPBELL**  
Two Men of Quality.

**GRAND MUSICAL SPECTACLE**  
**JOS. HART'S CRICKETS**  
Katherine Bunn, W. N. Cripps  
and Big Fascinating Company.

**CHARLES R. SWEET**  
MAX WITT'S COLLEGE'S  
YORK'S TERRIERS

Positive Appearance of the London Favorite

**LILY LENA**

Singing Comedienne with her latest and  
Greatest Successes.

Mats. 15 to 25c., a few 50c. Eve. 25 to 75c.  
No Higher

## GLOBE THEATER

WEEK OF MARCH 2

"THE VANDERBILT CUP"

Matinees, Mon., Wed. &amp; Fri.

## BOSTON THEATER

54TH SEASON

LINDSAY MORISON, Manager

STANDARD and MODERN PLAYS  
POPULAR PRICES

**HERRICK TICKETS**  
ALL THEATRES

Copley Square

Telephone  
2329, 2330 and 2331 Back Bay

Floral Designs a Specialty  
Flowers and Plants at Reasonable Prices  
**FINE, The Florist**

202 Dartmouth St., Boston, Mass.  
Telephone, 1521-3 Back Bay  
Fresh Violets Three Times a Day

# ASK ANY COLLEGE MAN ABOUT COES & YOUNG'S SHOES

20 SCHOOL STREET, - BOSTON

"ALL WORK AND NO PLAY MAKES JACK A DULL BOY"

## "TECH BOWLING HEADQUARTERS"

TRINITY COURT BOWLING ALLEYS

Established 1898 175 Dartmouth Street Opp. Pierce Bldg.

Two minutes walk from all Tech Buildings. Unexcelled facilities for ladies and the most fastidious bowler to enjoy this fascinating and healthy pastime. Alleys reserved and screened for private parties. Come in and enjoy a little fun and exercise between periods.

## COURSE II ALSO.

(Continued from page 1.)

Professor Lanza says in regard to this, "We need a stationary plant for testing locomotives. There are several such plants in existence, and, while we frequently make investigations by means of road tests of locomotives, such a plant would enable us to increase very much our usefulness to the engineering public."

This plant will probably be installed as soon as more space is given for the use of the mechanical engineering laboratories.

Besides the gifts already mentioned are the following:

A complete set of blue prints of locomotives by the Baldwin Locomotive Works and the American Locomotive Company.

Considerable valuable literature by the following concerns: The American Locomotive Company, the Baldwin Locomotive Company, the Crosby Steam Gauge Company, the Carnegie Steel Company, the Draper Company, the Jones and Laughlin Steel Company, the B. F. Sturtevant Company, the Walworth Company, and the D. R. Wood Company.

Valuable modern apparatus for use in connection with the work in the drawing room by the Fitchburg Machine Tool Company, the B. F. Sturtevant Company, and the Napier Company of America.

There is considerable investigation into various industrial problems now going on in the mechanical laboratories, many of the investigations of modern engineering problems being of very considerable value to the engineering and industrial public.

Among the investigations into the friction of gases in pipes and through orifices there are three experiments now being carried on, one on the friction of air flowing in pipes, and losses due to elbows and bends being very valuable owing to the fact that the amount of experimental data available on this subject is very small.

Another is an investigation of the flow through orifices of steam with different amounts of moisture, under small differences of pressure.

The other is Professor Church's investigation being carried on as a subject

for an advanced degree thesis, being the determination of the velocity and energy of a jet of steam issuing from a flared nozzle.

Added to this regular research there is of course every year the regular thesis work of the Seniors, some of which is very valuable and interesting. Among the striking work done by members of last year's graduating class, being continued this year is the investigation of locomotive driving springs and the investigation upon re-inforced concrete beams.

There will probably be more work done on the investigation of the effect of water upon the fire-resisting properties of brick and the investigation of the variation in the angular velocity during one stroke of a reciprocating engine.

## SHOW PROGRESSING RAPIDLY.

It really sounds like something now when the chorus sings over the songs for the new show. They have just begun to sing the different parts, and under the leadership of J. M. Floekton, are rapidly getting into shape. The dancers are rehearsing daily, although they are not yet definitely picked.

At the rehearsal last Friday, General Manager Dewey read the petition of the Tech Show to the Faculty relative to the granting of an extra vacation period in April, and it was received with enthusiasm, which left no room for doubt as to the attitude of the members of the Show in regard to it.

The rehearsal of the principals Saturday was given up to special drill in each individual act. By this time most of the actors know their parts and, with the assistance of K. Greenleaf, assistant stage manager, as prompter, the rehearsal went along smoothly.

In addition to the provisional cast J. J. Higgins has been selected to take the part of "Norah."

## TECH MEN GET OFFICES.

At the 12th annual dinner of the Mechanic Arts High School Alumni Association at the Quincy House last Thursday, J. W. Howard 1903, instructor in civil engineering, was elected president; H. K. Spencer 1909, secretary; and H. M. Davis 1911, to the executive committee.

# The Technology Review

A QUARTERLY MAGAZINE  
DEVOTED TO THE INTERESTS OF  
THE MASSACHUSETTS INSTITUTE  
OF TECHNOLOGY

AND  
PUBLISHED BY THE ASSOCIATION  
OF CLASS SECRETARIES

83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to THE TECHNOLOGY REVIEW, 83 Newbury St., Boston.

SUBSCRIPTION, ONE DOLLAR A YEAR  
SINGLE COPIES, THIRTY-FIVE CENTS

Volumes I, III, IV, and V, finely bound in half morocco, are ready for delivery at \$2.00 each, or will be exchanged for unbound sets, provided they are in good condition, at \$1.00 each. (If sent by mail, 30 cents extra.) Vols. VI, and VII, at \$2.25 each, or they will be exchanged for unbound set at \$1.25 each.

**GENTLEMEN**  
WHO DRESS FOR STYLE  
NEATNESS, AND COMFORT  
WEAR THE IMPROVED

## BOSTON GARTER

THE RECOGNIZED STANDARD  
The Name is  
stamped on every  
loop—

The  
*Velvet Grip*  
CUSHION  
BUTTON  
CLASP

LIES FLAT TO THE LEG—NEVER  
SLIPS, TEARS NOR UNFASTENS

Sample pair, Silk 50c., Cotton 25c.  
Mailed on receipt of price.

GEO. FROST CO., Makers  
Boston, Mass., U.S.A.

**ALWAYS EASY**

## DAVID J. FOX

Hatter and Haberdasher

LAUNDRY RETURNED IN TEN HOURS

Up-to-date Novelties in Men's Furnishings

Corner CHANDLER &amp; DARTMOUTH STS.

Special attention to Tech Men

**CANTAB A**

**ARROW**

CLUPECO SHRUNK  
Quarter sizes. 15c each, 2 for 25c.  
CLUETT, PEARBODY & CO.  
Makers of Cheats and Mousch Shirts

## BOSTON THEATER

54TH SEASON

LINDSAY MORISON, Manager

STANDARD and MODERN PLAYS  
POPULAR PRICES

**HERRICK TICKETS**  
ALL THEATRES

Copley Square

Telephone  
2329, 2330 and 2331 Back Bay

Floral Designs a Specialty  
Flowers and Plants at Reasonable Prices  
**FINE, The Florist**

202 Dartmouth St., Boston, Mass.  
Telephone, 1521-3 Back Bay  
Fresh Violets Three Times a Day

## TECH MEN

Especially Catered for

at

33 ST. BOTOLPH ST.

A. G. Cotton

## T. J. SOUTHWELL

Stationer and Newsdealer

Circulating Library Laundry Agency

Ladies' and Gentlemen's Furnishings

66 HUNTINGTON AVENUE, BOSTON

Near cor. of Irvington Street

## DINING ROOM

ST. BOTOLPH STREET

Popular Prices. Special Attention  
to "Tech Men." Try our Course  
Lunch 25c.

W. H. PRIDHAM

## DAVID W. EDWARDS, Jr.

Tailor

420 Boylston Street, - Boston

Telephone, Back Bay 3535-3

## SPECIAL REDUCTIONS

Men's Cheviot Shirts, cuffs attached  
and detached, 98c. each  
Imported Cape Gloves reduced to 98c. a pair  
Fancy Waistcoats to \$1.27 each

## PLAZA OUTFITTERS

431 COLUMBUS AVE., Next to Hotel Plaza

## THE STUDENT'S DRUG STORE

UNDER COPLEY SQUARE HOTEL  
We make a special effort to merit  
the patronage of our student  
friends

Don't forget the address — under Copley Square Hotel

## LANDER'S

LUNCH AND COFFEE HOUSE

25 YEARS EXPERIENCE

20 Huntington Avenue, near Copley Square

ALSO AT 46 HIGH STREET

TELEPHONE 6319-1 BACK BAY BOSTON

## W. M. ROWAN

"THE TECH BARBER"

Westminster Hotel . . . St. James Ave.

SPECIAL TO STUDENTS

HAIR CUT 25 CENTS SHAVE 15 CENTS

## J. MAKLAUSKY

Tailor

Opposite Victoria and Vendome Hotels

Nothing too small for my strict attention  
and nothing too high for my capability

145 Newbury St. Tel. 3050-4 B. B.

## ON THE BUSINESS BATTLE FIELD

You should arm yourself with the best instruments of battle of the highest perfection. Our engravings and illustrations make your VICTORY SURE. If you don't want to retreat call at the address below.

### Massachusetts Engraving Co.

ENGRAVERS AND ILLUSTRATORS

Telephone, Hay. 1724-1725

104 HANOVER ST., CITY

### Hotel Westminster



COPLEY SQUARE

BOSTON

Charles A. Gleason C. Norris Whiting

### HIGGINS'



Drawing-Inks  
Etching-Inks  
Engraving-Inks  
Taurine Mucilage  
Photo-Mount  
Drawing-Board Paste  
Liquid Paste  
Office Paste  
Vegetable Glue, Etc.

Are the Finest and Best Inks and Adhesives. Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the Higgins Inks and Adhesives. They will be a revelation to you, they are so sweet, clean, and well put up.

At Dealers Generally.

CHAS. M. HIGGINS & CO., Mfrs.  
Branches: Chicago, London  
271 Ninth Street, Brooklyn, N.Y.

### EUGENE DIETZGEN CO.

NEW YORK, CHICAGO, SAN FRANCISCO,  
NEW ORLEANS, TORONTO.

OUR BOSTON AGENTS  
**LEDGER & PROBST**  
387 Washington St.  
STOCK A FULL LINE OF OUR GOODS

SOMETHING NEW  
MULTIPLEX SLIDE RULE

### MORSE & HENDERSON

Tailors

18 BOYLSTON STREET

Rooms 14-15

Telephone Oxford 99

BOSTON



These  
Are Your  
Safeguards

Scrupulous care in milking—hygienic methods in handling—freedom from adulteration—cool temperature—healthy cows—a richness in cream—a fineness in flavor—these are the means by which HOOD'S MILK brings health and happiness into 70,000 homes.

**H. P. HOOD & SONS**

494 Rutherford Ave. 'Phone Ch's'n 600

### CALENDAR.

Monday, March 2.

- 1.00 P.M. Institute Committee Meets in the Trophy Room.
- 1.00 P.M. Board of Editors of The Tech Meet at Technology Club.
- 1.00 P.M. British Empire Association Meets in 16 Rogers.
- 4.00 P.M. Tech Show Chorus Rehearsals at the Union.
- 4.15 P.M. Banjo Club Rehearsal in 33 Rogers.
- 4.15 P.M. Glee Club Rehearsal in the Y. M. C. A. Auditorium.
- 8.00 P.M. Mining Engineers Meet in Room 2, Rogers.

Tuesday, March 3.

- 1.00 P.M. Mass Meeting at Huntington Hall.
- 1.45 P.M. Options 1, 2 and 4, Mech. Eng. Society, Meet in 24 Eng. B for Trip to Herald Building.
- 3.00 P.M. Tech Show Dancers Rehearse at the Union.
- 4.00 P.M. Tech Show Principals Rehearse at the Union.
- 4.15 P.M. Banjo Club Rehearses in 33 Rogers.
- 5.00 P.M. Short Out Door run from the Gym.
- 8.00 P.M. Mechanical Engineering Society Meets at the Union.

Wednesday, March 4.

- 4.00 P.M. Tech Show Chorus Rehearses at the Union.
- 7.30 P.M. Chemical Society Meets at the Union.

### NOTICES.

TECH SHOW.—Tuesday 3 P. M. Dancers Rehearsal.  
1909.—All who have ordered class pictures are requested to take them at once.

INSTITUTE COMMITTEE.—Meeting at 1.00 P. M. in the Trophy Room today.

MANDOLIN CLUB.—No rehearsal today. The Thursday rehearsal will be held as usual.

THE TECH.—The Board of Editors of The Tech will meet at 1 o'clock today at the Technology Club.

BRITISH EMPIRE ASSOCIATION.—Business meeting at 1 P. M. today in 16 Rogers.

CHEMICAL SOCIETY.—The Chemical Society will meet at the Union Wednesday at 7.30 P. M. to hear a talk on "Chrome Tanning." Tickets 25 cents.

MINING ENGINEERS.—The Mining Engineering Society will meet this evening at 8 o'clock in Rogers. Prof. Bugbee will talk on cyaniding. All second-year students in Course III are invited to be present.

### CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

LOST.—Peabody's "Valve Gears." Leave at Cage for A. K. Huckins.

Men who desire summer work at \$2.50 per day, leave note for Woodruff at the Cage. ATTEND TO THIS NOW.

Will the one who absent minded picked up "A Course in Mathematics" at the Union last Friday, please return the same to the Cage and oblige Clayton S. Robinson. I need the money.

SECOND HAND TEXT BOOKS.—A few second hand books needed in the second term can be had by applying at Box 52 Cage, Book Exchange.

# HALL & HANCOCK CO.

## Hats and Furs

THE STANDARD OF STYLE AND EXCELLENCE  
420 WASHINGTON ST.

### HOTEL BRUNSWICK

BOSTON

HERBERT H. BARNES, Proprietor

EUROPEAN

AND

AMERICAN

PLANS

## THE GURNEY NATIONAL

IS THE MODERN

### ELEVATOR

For Passenger and Freight Service

EXCELS ALL OTHERS IN SAFETY, RELIABILITY AND ECONOMY

**W. S. TUBMAN, Agent**

20 CENTRAL STREET,

BOSTON, MASS.

## OTIS ELEVATOR COMPANY

53 State Street, BOSTON

Electric and Hydraulic Elevators  
ESCALATORS (Moving Stairways)

TELEPHONE OXFORD 953-2.

Now is the BEST TIME to have your

## LIGHT-WEIGHT CLOTHES MADE.

ARTHUR ONTHANK,  
TAILOR,

105 Summer Street, Boston.

REFERENCES AMONG TECH MEN.

All Goods Required by  
Students at

## MacLachlan's

502 Boylston St.

Drawing Instruments and Materials, etc.  
Fountain Pens, Text-books

### GEO. H. ELLIS CO

Printers

No. 272 CONGRESS STREET

BOSTON, MASS.

Phone, 1546

### CHAMBERLAIN HATS



637 Washington Street, cor. Boylston Street  
663 Washington Street, opp. Beach Street



**J. C. LITTLEFIELD**  
Tailor and Outfitter

12 BEACON STREET, BOSTON

I can offer you a larger and more complete assortment than can be seen elsewhere, and at lower prices for the same qualities. Look in and examine my prices before placing your order. Golf Breeches, Riding Breeches and Dress Suits a Specialty

DISCOUNT TO STUDENTS